BMC is releasing version 1.2.00 of the BMC Application Accelerator for IMS product.

Application Accelerator is available as a stand-alone product and as a component of the BMC Cost & Performance Optimization for System z solution.

**Note**

Before you begin installation, BMC recommends that you check the Support Central website at http://www.bmc.com/support for:

- Updated product documentation (for example, flashes and technical bulletins)
- Product downloads, patches, and fixes (PTFs)
- Product availability and compatibility (PAC) data

These release notes supplement and supersede the product documentation and discuss product enhancements.

The following topics are discussed:

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  Support for the PROCSEQ parameter ................................2
  Support for PSBs that specify POS=M ..................................2
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What's new

These topics describe the changes or new features in this release.

Support for Boolean AND operators

You can now use Boolean AND operators in segment search arguments (SSAs). Application Accelerator supports a maximum of 10 AND operators in each SSA.

Note
The product does not support other Boolean operators.

Support for the PROCSEQ parameter

Application Accelerator now supports using the PROCSEQ parameter. However, you cannot use:

- PROCSEQs that require logical database definitions
- PROCSEQs for databases with hierarchical pointers when the target of the index is not the root
- PROCSEQs for databases with symbolic pointers when the target of the index is not the root

Support for PSBs that specify POS=M

Application Accelerator now supports program specification blocks (PSBs) that specify the multiple positioning option with POS=M.

Support for command code F in SSAs

Application Accelerator now supports database calls that include command code F in SSAs.
**Note**  
Application Accelerator does not support database calls that include other SSA command codes (L, M, N, O, U, or V).

$IBO$RPT report

Application Accelerator now produces the $IBO$RPT report to provide essential information about job step characteristics and Application Accelerator activities.

By default, Application Accelerator dynamically allocates the $IBO$RPT data set to SYSOUT=* for every job step that is eligible for Application Accelerator participation. The job step JCL can allocate the data set explicitly to a different location. You can prevent dynamic allocation of $IBO$RPT by specifying the SKIPRPT=Y option through the IBOINIT utility.

Figure 1 shows an example of the $IBO$RPT report.

**Figure 1: $IBO$RPT report**

```plaintext
********************************************************************************
**                             AAI JOBSTEP REPORT                             **
** JOB=IBOV0190   STEP=DBREAD1    PROCSTEP=DLIUPROG    PROGRAM=DBREAD        **
** PSB=PIACGO     IMSID=MXOG       MVSID   =IMSA        RGNTYPE=DLI           **
********************************************************************************
********************************************************************************
TOTAL RUNS OF ALL TYPES      3
RUNS BEFORE OPTIMIZATION     1
THE CURRENT EXECUTION DID OPTIMIZE THIS STEP

RESOURCE USAGE FOR THIS JOB_STEP:
SERVICE UNITS USED IN THOUSANDS            27
EXECUTION TIME USED IN SECONDS              7
EXECUTE CHANNEL PROGRAMS USED              33
TOTAL DLI CALLS FOR THIS RUN          116,969

AVERAGE MONITOR RUN RESOURCE USAGE:
AVG. SERVICE UNITS IN THOUSANDS            18
AVG. EXECUTION TIME IN SECONDS              5
AVG. EXECUTE_CHANNEL_PROGRAMS             977
AVERAGE MONITOR RUN DLI CALLS            30,000

ESTIMATE OF TOTAL SAVINGS IN ALL RUNS:
SERVICE UNITS SAVED IN THOUSANDS          147
EXECUTION TIME SAVED IN SECONDS            43
EXECUTE CHANNEL PROGRAMS SAVED          3,823

*  DBPCB=          DBD=PIACRNDB  PROCSEQ=   PROCOPT=GO   DBTYPE=SHISAM  *
********************************************************************************
CURRENT DLI CALLS:   GU  =            1 GN  = 116,968 GNP =            0
:   ISRT=            0 REPL=            0 DLET=            0
:   GH* =            0
AVERAGE MONITOR  :   GU  =            1 GN  =       29,999 GNP =            0
```

What's new

BMC Application Accelerator for IMS version 1.2.00
The $IBO$RPT report contains the following sections:

- The job step section identifies the job step and shows overall resource usage and savings.
- The DBPCB section shows calls, optimizations, and reasons for optimization choices by DBPCB.
- The summary section shows calls and optimizations for all DBPCBs.

**Job-step status information for all applications**

On the console, the Job Status window now displays job-step status information for all types of applications. Previously, this information was available only for batch message processing (BMP) applications.

**Improved documentation**

In addition to documenting version 1.2 changes, the *BMC Application Accelerator for IMS User Guide* has expanded some topics and added others to provide more helpful information, as follows:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;Optimization for IMS DLI and DBB job steps,&quot;</td>
<td>New and expanded topics in Chapter 1</td>
</tr>
<tr>
<td>&quot;Optimization for IMS BMP job steps,&quot;</td>
<td></td>
</tr>
<tr>
<td>&quot;Supported application types&quot;</td>
<td></td>
</tr>
<tr>
<td>Topic</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------------------------------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td>&quot;Supported database types&quot;</td>
<td>New topic in Chapter 1</td>
</tr>
<tr>
<td>&quot;Memory requirements in the batch address space&quot;</td>
<td>New topic in Chapter 1</td>
</tr>
<tr>
<td>&quot;Managing access authority for BMP jobs&quot;</td>
<td>New topic in Chapter 3</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> This topic supersedes the corresponding information in the Database Products for IMS Configuration Guide. Until the configuration guide is updated, use the information in the user guide instead.</td>
</tr>
<tr>
<td>&quot;Modifying startup procedures for existing subsystems and servers&quot;</td>
<td>New topic in Chapter 3</td>
</tr>
<tr>
<td>&quot;Enabling and disabling Application Accelerator in the CPC subsystem&quot;</td>
<td>New topic in Chapter 3</td>
</tr>
<tr>
<td>&quot;Modifying application JCL in trial mode&quot; and &quot;Obtaining diagnostic trace information&quot;</td>
<td>Updated topics in chapters 2 and 4 that now provide information about the previously undocumented $IBODIAG diagnostic data set. BMC Customer Support might ask you to include the following statement in your application job step JCL if a problem is occurring: /$IBODIAG DD SYSOUT=*</td>
</tr>
</tbody>
</table>

## PTF information

BMC provides additional information about PTFs for:

- Solutions, products, and FMIDs for IMS that were installed from BMC I-series media or electronic software distribution (ESD) images
- FMIDs that are related to the I-series but were installed from B-series media or images that provide BMC shared and infrastructure functionality

You can find the following information in the BMC Knowledge Base on the BMC Support Central website at [http://www.bmc.com/support](http://www.bmc.com/support):

<table>
<thead>
<tr>
<th>Description</th>
<th>Knowledge article</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>PTFs on all program update tapes (PUTs) that apply to I-series FMIDs</td>
<td>KA358424</td>
<td><a href="https://kb.bmc.com/infocenter/index?page=content&amp;id=S:KA358424">https://kb.bmc.com/infocenter/index?page=content&amp;id=S:KA358424</a></td>
</tr>
<tr>
<td>Available PTFs that have not yet been included on a PUT</td>
<td>KA358425</td>
<td><a href="https://kb.bmc.com/infocenter/index?page=content&amp;id=S:KA358425">https://kb.bmc.com/infocenter/index?page=content&amp;id=S:KA358425</a></td>
</tr>
</tbody>
</table>
Installation

Application Accelerator is installed by using the Installation System. This section contains installation information that supplements or supersedes the information in the Installation System documentation.

To download the latest version of the Installation System, complete these steps:

1. Go to http://www.bmc.com/support/reg/installation-system.html, or navigate to the “BMC data management for DB2 and IMS, MainView, and cost optimization products installation and maintenance” section of the BMC Support Central website.
   A BMC support user ID and password are required.

2. Click **Installation**.

3. Follow the procedures.

   **Note**
   To request physical shipments, contact your BMC sales representative. Contact information is available on the BMC website.

Requirements

For Application Accelerator software, hardware, and other requirements, see the *Installation System Reference Manual*.

Installation changes

For information about installation changes, see the Installation System release notes.

FMID and version information

This release of Application Accelerator uses the following versions of the Installation System and installation media:

- Version 2.4.00 or later of the Installation System
- Version 2.4.00 or later of the installation media
**Note**

If you have a later version of the Installation System or the installation media, use that version to install the solution, product, or component.

During installation, the following versions and SMP/E FMIDs are installed:

<table>
<thead>
<tr>
<th>FMID</th>
<th>Product or component</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASAR71C</td>
<td>SAS C and SAS C++ modules</td>
</tr>
<tr>
<td>BBAPW32</td>
<td>BMC Password Security System</td>
</tr>
<tr>
<td>BBASC70</td>
<td>SAS C modules</td>
</tr>
<tr>
<td>BBBBP11</td>
<td>BMC Primary Subsystem</td>
</tr>
<tr>
<td>BBBCS11</td>
<td>BMC Subsystem</td>
</tr>
<tr>
<td>BBYXM13</td>
<td>Base Technology</td>
</tr>
<tr>
<td>VICO140</td>
<td>IMS Common Code - Region Controller</td>
</tr>
<tr>
<td>XICO120</td>
<td>IMS RECON Reader for DBRC</td>
</tr>
<tr>
<td>YICO110</td>
<td>IMS Common/TM</td>
</tr>
<tr>
<td>ZBMRI5E</td>
<td>ISR external routines</td>
</tr>
<tr>
<td>ZBRRI460</td>
<td>Backup and Recovery products for IMS</td>
</tr>
<tr>
<td>ZBST100</td>
<td>BMC Support Tool</td>
</tr>
<tr>
<td>ZCPC250</td>
<td>Cross Product Connectivity</td>
</tr>
<tr>
<td>ZDBU490</td>
<td>Classic Database Utilities for IMS</td>
</tr>
<tr>
<td>ZDHS053</td>
<td>DNA Host Services modules</td>
</tr>
<tr>
<td>ZDGI190</td>
<td>DIGNUS C runtime modules and C++ objects</td>
</tr>
<tr>
<td>ZDILI490</td>
<td>EP Database Utilities for IMS</td>
</tr>
<tr>
<td>ZICO140</td>
<td>IMS Common Code - Content Config GUI</td>
</tr>
<tr>
<td>ZLGB110</td>
<td>BMC Sort Services</td>
</tr>
<tr>
<td>ZMRE110</td>
<td>Rules Engine &quot;C&quot; code</td>
</tr>
<tr>
<td>ZPFP3B0</td>
<td>Fast Path/EP</td>
</tr>
<tr>
<td>ZSMF540</td>
<td>SmartDBA Mainframe modules</td>
</tr>
<tr>
<td>ZUIMS540</td>
<td>User Interface Middleware (UIM) modules</td>
</tr>
<tr>
<td>ZUSC540</td>
<td>UIM common services modules</td>
</tr>
<tr>
<td>ZUWS540</td>
<td>UIM web services modules</td>
</tr>
<tr>
<td>ZXBM610</td>
<td>EXTENDED BUFFER MANAGER code</td>
</tr>
</tbody>
</table>
The preceding table contains the FMIDs for Application Accelerator only. You can also obtain product, solution, and component information (FMIDs, codes, and versions) in the following ways:

- View the generated installation JCL member $176APLF.
  To search the file, search on the word FORFMID.

- View one of the following reports:
  - *bxx_ozi_tape_product_list.txt* lists FMIDs for cost optimization products, products shared across product lines, and infrastructure products.
  - *cxx_ozi_tape_product_list.txt* lists FMIDs for BMC products for IBM DB2.
  - *ixx_ozi_tape_product_list.txt* lists FMIDs for BMC products for IBM IMS.
  - *mxx_ozi_tape_product_list.txt* lists FMIDs for MainView products.

To access the reports on the BMC electronic software distribution (ESD) site, take the following steps:

1. Go to [http://www.bmc.com/support/reg/installation-system.html](http://www.bmc.com/support/reg/installation-system.html), or navigate to the “BMC data management for DB2 and IMS, MainView, and cost optimization products installation and maintenance” section of the BMC Support Central website.
2. Click **Product codes and FMIDs**.
3. Click one of the listed reports.

## Maintenance

After you install your software, you can download any additional SMP/E maintenance by using either BMC Internet Service Retrieval (BMC ISR) or eFix PTF Distribution Services ([http://apps.bmc.com/support/efix.cgi](http://apps.bmc.com/support/efix.cgi)).

BMC ISR is available for all products that you install by using the Installation System. For more information, see the Installation System documentation.

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**Note**

Before applying maintenance, ensure that you have successfully run the $176APLF job to set up your maintenance environment.
Support status

You can find the support status for specific product versions on the Support Central website. Selecting a product from the “A – Z Supported Product List” shows:

- All versions of the product and their current support levels (full or limited)
- Dates on which support ends

For more information about the latest support policies, see the Support Central website at http://www.bmc.com/support.

Product documentation

From the Support Central website (http://www.bmc.com/support), you can:

- Link to the BMC Documentation Center (https://webapps.bmc.com/infocenter/index.jsp) to browse documentation sets

- View Quick Course videos (short overviews of selected product concepts, tasks, or features), which are available from the following locations:
  — Documentation Center
  — Support Central (at http://www.bmc.com/support/mainframe-demonstrations)
  — BMC Mainframe YouTube channel (https://www.youtube.com/user/BMCSoftwareMainframe)

- View individual product documents (books and notices) within the “A – Z Supported Product List”

You can order hardcopy documentation from your BMC sales representative or from the support site. You can also subscribe to proactive alerts to receive e-mail messages when notices are issued.

Customer support
If you have problems with or questions about a BMC product, see the support website at http://www.bmc.com/support. You can view or download product documents, find answers to frequently asked questions, and download products and maintenance. If you do not have access to the web and you are in the United States or Canada, contact Customer Support at 1 800 537 1813. Outside the United States or Canada, contact your local BMC office or agent.

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